

**Sentinel Well Project**  
**Attachment 6 - Budget**

Table 3 - Budget						
Project Title: West Valley Water District Sentinel Well Project						
Budget Category*		(a)	(b)	(c)	(d)	(e)
		Non-State Share** (Funding Match)	Requested Grant Funding	Other State Funds Being Used	Total	% Funding Match
(a)	Direct Project Administration Costs - assume 5% of total budget <sup>(1)</sup>	\$0	\$10,000	\$0	\$10,000	0%
(b)	Land Purchase/Easement <sup>(1)</sup>	\$0	\$8,000	\$0	\$8,000	0%
(c)	Planning/Design/Engineering/ Environmental Documentation <sup>(2,3)</sup>	\$0	\$22,400	\$0	\$22,400	0%
(d)	Construction/Implementation <sup>(3)</sup>	\$273,300	\$189,600	\$0	\$462,900	59%
(e)	Environmental Compliance/ Mitigation/Enhancement	\$0	N/A	\$0	\$0	0%
(f)	Construction Administration	\$0	\$0	\$0	\$0	0%
(g)	Other Costs (Program Management & Monitoring Requirements)	\$0	\$0	\$0	\$0	0%
(h)	Construction/Implementation Contingency - 10%	\$26,200	\$20,000	\$0	\$46,200	57%
(i)	<b>Grand Total (Sum rows (a) through (h) for each column)</b>	<b>\$299,500</b>	<b>\$250,000</b>	<b>\$0</b>	<b>\$549,500</b>	<b>55%</b>

**(1) Cost NOT included in engineer's cost estimate.**  
**(2) Includes permitting costs.**  
**(3) See Engineer's Cost Estimate for Details.**  
**\* For each budget category, supplemental detailed cost explanations are provided in Att6\_LGA12\_WestValleyWD\_BUDGET\_2of2.pdf .**  
**\*\*List sources of funding: District's general funds.**

## DETAILED COST ESTIMATE WORKSHEET 2012

Client: West Valley Water District

Project: Sentinel Well Installation for Rialto Well No. 6

Proposal/Project No.: \_\_\_\_\_

**Summary of All Tasks**

Date: 7/13/12 Rev. #: 0

Rate Schedule: See below.

**Cost Estimate Summary**

Labor	879	Total Hours		\$ 136,755.00	25.73%
Subs				\$ 337,150.00	63.42%
ODCs				\$ 11,467.50	2.16%
Contingency	10%			\$ 46,216.25	8.69%
<b>Total</b>				<b>\$ 531,588.75</b>	<b>100.00%</b>

Labor Dollars/Manhour: \$156

Note: Start with new sheet for each project.  
Contact Jay Knight with improvement suggestions.

Notes: Budgetary Estimates for Grant

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Approved by: \_\_\_\_\_

Cost Estimate Summary

Labor Hours										
Staff Member	Rate	Project Tasks								Total
		Task a	Task c	Task c	Task c	Task d	Task d	Task d	Task e	
	See below.	(a) Project Admin	(c.7) CEQA Exemption	(c.5) BDM	(c.6) Drilling Contract Documents	(d.9) Bidding Assistance	(d.10.1 thru d.10.6) Construction Phase	(d.10.7) Well Completion Report	Surveillance Monitoring	
(ES9) Senior Principal	\$240	-	-	-	-	-	-	-	-	-
(ES8) Principal Engineer-Scientist	\$235	-	-	16	12	12	30	16	-	86
(ES7) Senior Engineer-Scientist	\$225	-	1	-	-	-	-	-	-	1
(ES6) Senior Associate Eng-Sci	\$200	-	-	-	-	-	-	-	-	-
(ES5) Associate Eng-Scientist	\$180	-	-	20	16	16	92	32	-	176
(ES4) Engineer-Scientist	\$165	-	-	-	-	-	-	-	-	-
(ES3) Senior Staff Eng-Scientist	\$150	-	-	-	-	-	256	60	-	316
(ES2) Staff Engineer-Scientist	\$130	-	4	16	20	10	-	-	-	50
(ES1) Engineer-Scientist 1	\$125	-	-	-	-	-	-	-	-	-
Designer/Senior Tech.	\$135	-	-	12	12	12	144	12	-	192
(CAD-Tech.) Drafter/Technician	\$105	-	-	-	-	-	-	-	-	-
Project Administrator	\$95	-	-	-	-	-	12	-	-	12
(Admin. Asst.) Word Processor	\$80	-	-	4	2	2	30	8	-	46
(Aide) Non-Technical	\$60	-	-	-	-	-	-	-	-	-
<b>Total Labor Hours by Task</b>		0	5	68	62	52	564	128	0	879

Labor Cost										
Staff Member	Rate	Project Tasks								Total
		Task a	Task c	Task c	Task c	Task d	Task d	Task d	Task e	
	See below.	(a) Project Admin	(c.7) CEQA Exemption	(c.5) BDM	(c.6) Drilling Contract Documents	(d.9) Bidding Assistance	(d.10.1 thru d.10.6) Construction Phase	(d.10.7) Well Completion Report	Surveillance Monitoring	
(ES9) Senior Principal	\$ 240	-	-	-	-	-	-	-	-	\$ -
(ES8) Principal Engineer-Scientist	\$ 235	-	-	\$ 3,760.00	\$ 2,820.00	\$ 2,820.00	\$ 7,050.00	\$ 3,760.00	-	\$ 20,210.00
(ES7) Senior Engineer-Scientist	\$ 225	-	\$ 225.00	-	-	-	-	-	-	\$ 225.00
(ES6) Senior Associate Eng-Sci	\$ 200	-	-	-	-	-	-	-	-	\$ -
(ES5) Associate Eng-Scientist	\$ 180	-	-	\$ 3,600.00	\$ 2,880.00	\$ 2,880.00	\$ 16,560.00	\$ 5,760.00	-	\$ 31,680.00
(ES4) Engineer-Scientist	\$ 165	-	-	-	-	-	-	-	-	\$ -
(ES3) Senior Staff Eng-Scientist	\$ 150	-	-	-	-	-	\$ 38,400.00	\$ 9,000.00	-	\$ 47,400.00
(ES2) Staff Engineer-Scientist	\$ 130	-	\$ 520.00	\$ 2,080.00	\$ 2,600.00	\$ 1,300.00	-	-	-	\$ 6,500.00
(ES1) Engineer-Scientist 1	\$ 125	-	-	-	-	-	-	-	-	\$ -
Designer/Senior Tech.	\$ 135	-	-	\$ 1,620.00	\$ 1,620.00	\$ 1,620.00	\$ 19,440.00	\$ 1,620.00	-	\$ 25,920.00
(CAD-Tech.) Drafter/Technician	\$ 105	-	-	-	-	-	-	-	-	\$ -
Project Administrator	\$ 95	-	-	-	-	-	\$ 1,140.00	-	-	\$ 1,140.00
(Admin. Asst.) Word Processor	\$ 80	-	-	\$ 320.00	\$ 160.00	\$ 160.00	\$ 2,400.00	\$ 640.00	-	\$ 3,680.00
(Aide) Non-Technical	\$ 60	-	-	-	-	-	-	-	-	\$ -
<b>Total Labor Cost by Task</b>		\$ -	\$ 745.00	\$ 11,380.00	\$ 10,080.00	\$ 8,780.00	\$ 84,990.00	\$ 20,780.00	\$ -	\$ 136,755.00

Cost Estimate Summary

Subs and ODCs		Project Tasks									Total
Markup Rate	10.0%	Task a	Task c	Task c	Task c	Task d	Task d	Task d	Task e		
Description	Sub/ODC	(a) Project Admin	(c.7) CEQA Exemption	(c.5) BDM	(c.6) Drilling Contract Documents	(d.9) Bidding Assistance	(d.10.1 thru d.10.6) Construction Phase	(d.10.7) Well Completion Report	Surveillance Monitoring		
Utility Clearance	Sub	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,000.00	\$ -	\$ -	\$ 2,000.00	
Drilling and Sampling	Sub	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 269,000.00	\$ -	\$ -	\$ 269,000.00	
Land Surveying	Sub	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,000.00	\$ -	\$ -	\$ 2,000.00	
Lab Analysis	Sub	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,500.00	\$ -	\$ -	\$ 2,500.00	
	Sub	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Downhole Geophysics	Sub	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,000.00	\$ -	\$ -	\$ 6,000.00	
Waste Disposal	Sub	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25,000.00	\$ -	\$ -	\$ 25,000.00	
Field Equipment Rental	ODC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,500.00	\$ -	\$ -	\$ 5,500.00	
Field Supplies	ODC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,000.00	\$ -	\$ -	\$ 2,000.00	
Permit Fees/ Agency Fees	ODC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,000.00	\$ -	\$ -	\$ 1,000.00	
	ODC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Reproduction/Communications	ODC	\$ -	\$ 50.00	\$ 50.00	\$ 100.00	\$ 50.00	\$ 375.00	\$ 250.00	\$ -	\$ 875.00	
	ODC	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Markup		\$ -	\$ 5.00	\$ 5.00	\$ 10.00	\$ 5.00	\$ 31,537.50	\$ 25.00	\$ -	\$ 31,587.50	
Auto Mileage (enter estimated miles)		0	0	0	0	0	2100	0	0	2100	
Mileage Reimbursement rate:	\$0.55	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,155.00	\$ -	\$ -	\$ 1,155.00	
Total Subs		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 337,150.00	\$ -	\$ -	\$ 337,150.00	
Total ODCs		\$ -	\$ 55.00	\$ 55.00	\$ 110.00	\$ 55.00	\$ 10,917.50	\$ 275.00	\$ -	\$ 11,467.50	
Total Subs and ODCs by Task		\$ -	\$ 55.00	\$ 55.00	\$ 110.00	\$ 55.00	\$ 348,067.50	\$ 275.00	\$ -	\$ 348,617.50	

Lab Analysis Detail		Project Tasks									Total
Analysis	Rate	Task a	Task c	Task c	Task c	Task d	Task d	Task d	Task e		
		(a) Project Admin	(c.7) CEQA Exemption	(c.5) BDM	(c.6) Drilling Contract Documents	(d.9) Bidding Assistance	(d.10.1 thru d.10.6) Construction Phase	(d.10.7) Well Completion Report	Surveillance Monitoring		
Orange Coast Analytical 3/05											
TRPH 418.1	\$ 75	0	0	0	0	0	0	0	0		
8015 gas	\$ 45	0	0	0	0	0	0	0	0		
8015 Total Carbon Chain	\$ 45	0	0	0	0	0	0	0	0		
VOCs 8260	\$ 125	0	0	0	0	0	20	0	20		
PAHs (8100/8310)	\$ 135	0	0	0	0	0	0	0	0		
BTEX 8021B (+/- MTBE)	\$ 45	0	0	0	0	0	0	0	0		
SVOCs 8270	\$ 250	0	0	0	0	0	0	0	0		
PCBs 8082	\$ 110	0	0	0	0	0	0	0	0		
Pesticides Organochlorine 8081	\$ 110	0	0	0	0	0	0	0	0		
Pesticides Organophosphorus 8141	\$ 175	0	0	0	0	0	0	0	0		
CAM Metals (6010/7470/7471)	\$ 140	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0		
Total Lab by Task		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,500.00	\$ -	\$ -	\$ 2,500.00	

Cost Estimate Summary

Task Totals, Contingencies and Rounding	Project Tasks								Total	
	Task a	Task c	Task c	Task c	Task d	Task d	Task d	Task e		
	(a) Project Admin	(c.7) CEQA Exemption	(c.5) BDM	(c.6) Drilling Contract Documents	(d.9) Bidding Assistance	(d.10.1 thru d.10.6) Construction Phase	(d.10.7) Well Completion Report	Surveillance Monitoring		
Labor Total	\$ -	\$ 745.00	\$ 11,380.00	\$ 10,080.00	\$ 8,780.00	\$ 84,990.00	\$ 20,780.00	\$ -	\$ 136,755.00	
Communications Fee (on labor) 0%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Subs Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 337,150.00	\$ -	\$ -	\$ 337,150.00	
ODC Total	\$ -	\$ 55.00	\$ 55.00	\$ 110.00	\$ 55.00	\$ 10,917.50	\$ 275.00	\$ -	\$ 11,467.50	
Task Total	\$ -	\$ 800.00	\$ 11,435.00	\$ 10,190.00	\$ 8,835.00	\$ 433,057.50	\$ 21,055.00	\$ -	\$ 485,372.50	
Contingency Percentage	0%	15%	10%	10%	10%	9%	10%	0%		
Contingency Amount	\$ -	\$ 120.00	\$ 1,143.50	\$ 1,019.00	\$ 883.50	\$ 40,944.75	\$ 2,105.50	\$ -	\$ 46,216.25	
Adjusted Task Total	\$ -	\$ 920.00	\$ 12,578.50	\$ 11,209.00	\$ 9,718.50	\$ 474,002.25	\$ 23,160.50	\$ -	\$ 531,588.75	
Round to nearest: (enter 0.01, 0.1, 1, 10, 100, 1000)	\$100.00	\$ -	\$ 900.00	\$ 12,600.00	\$ 11,200.00	\$ 9,700.00	\$ 474,000.00	\$ 23,200.00	\$ -	\$ 531,600.00

CHANGE ON SUMMARY SHEET ONLY

DO NOT CHANGE 1/1 OR 1/3/04 NUMBERS - ONLY CUSTOM

	Standard	Custom
Labor Categories		1/1/2012
(ES9) Senior Principal		\$240
(ES8) Principal Engineer-Scientist		\$235
(ES7) Senior Engineer-Scientist		\$225
(ES6) Senior Associate Eng-Sci		\$200
(ES5) Associate Eng-Scientist		\$180
(ES4) Engineer-Scientist		\$165
(ES3) Senior Staff Eng-Scientist		\$150
(ES2) Staff Engineer-Scientist		\$130
(ES1) Engineer-Scientist 1		\$125
Designer/Senior Tech.		\$135
(CAD-Tech.) Drafter/Technician		\$105
Project Administrator		\$95
(Admin. Asst.) Word Processor		\$80
(Aide) Non-Technical		\$60
Direct Expenses		10%
Communications Fee (on labor)		0%
Mileage		\$0.55

## DETAILED COST ESTIMATE WORKSHEET 2012

Client: West Valley Water District

Project: Sentinel Well Installation for Rialto Well No. 6

Proposal/Project No.: \_\_\_\_\_

Task d: (d.10.1 thru d.10.6) Con  
Construction Tasks

Date: 7/13/12 Rev. #: 0

Rate Schedule: See below.

0  
of these dates or a custom date and go to cell E140.)

### Cost Estimate Summary

Labor	564	Total Hours	\$	84,990.00	17.93%
Subs			\$	337,150.00	71.13%
ODCs			\$	10,917.50	2.30%
Contingency	10%		\$	40,944.75	8.64%
<b>Total</b>			<b>\$</b>	<b>474,002.25</b>	<b>100.00%</b>

Labor Dollars/Manhour: \$151

Notes: \_\_\_\_\_  
\_\_\_\_\_

Approved by: \_\_\_\_\_

Cost Estimate (d.10.1 thru d.10.6)

Labor Hours		Project Tasks							Total
Staff Member	Rate 01/01/12	Task d.10.1	Task d.10.2	Task d.10.3	Task d.10.4	Task d.10.5	Task d.10.6		
		Pre Construction	Drilling	Well Installation	Development	Wellhead Completion and Improvements	Construction Administration		
(ES9) Senior Principal	\$240							-	
(ES8) Principal Engineer-Scientist	\$235						30	30	
(ES7) Senior Engineer-Scientist	\$225							-	
(ES6) Senior Associate Eng-Sci	\$200							-	
(ES5) Associate Eng-Scientist	\$180						92	92	
(ES4) Engineer-Scientist	\$165							-	
(ES3) Senior Staff Eng-Scientist	\$150	16	240					256	
(ES2) Staff Engineer-Scientist	\$130							-	
(ES1) Engineer-Scientist 1	\$125							-	
Designer/Senior Tech.	\$135			60	60	24		144	
(CAD-Tech.) Drafter/Technician	\$105							-	
Project Administrator	\$95	4	2	2	2	2		12	
(Admin. Asst.) Word Processor	\$80	6	6	6	6	6		30	
(Aide) Non-Technical	\$60							-	
Total Labor Hours by Task		26	248	68	68	32	122	0	564

Labor Cost		Project Tasks							Total
Staff Member	Rate 01/01/12	Task d.10.1	Task d.10.2	Task d.10.3	Task d.10.4	Task d.10.5	Task d.10.6	-	
		Pre Construction	Drilling	Well Installation	Development	Wellhead Completion and Improvements	Construction Administration	-	
(ES9) Senior Principal	\$ 240	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(ES8) Principal Engineer-Scientist	\$ 235	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,050.00	\$ -	\$ 7,050.00
(ES7) Senior Engineer-Scientist	\$ 225	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(ES6) Senior Associate Eng-Sci	\$ 200	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(ES5) Associate Eng-Scientist	\$ 180	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,560.00	\$ -	\$ 16,560.00
(ES4) Engineer-Scientist	\$ 165	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(ES3) Senior Staff Eng-Scientist	\$ 150	\$ 2,400.00	\$ 36,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 38,400.00
(ES2) Staff Engineer-Scientist	\$ 130	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
(ES1) Engineer-Scientist 1	\$ 125	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Designer/Senior Tech.	\$ 135	\$ -	\$ -	\$ 8,100.00	\$ 8,100.00	\$ 3,240.00	\$ -	\$ -	\$ 19,440.00
(CAD-Tech.) Drafter/Technician	\$ 105	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Project Administrator	\$ 95	\$ 380.00	\$ 190.00	\$ 190.00	\$ 190.00	\$ 190.00	\$ -	\$ -	\$ 1,140.00
(Admin. Asst.) Word Processor	\$ 80	\$ 480.00	\$ 480.00	\$ 480.00	\$ 480.00	\$ 480.00	\$ -	\$ -	\$ 2,400.00
(Aide) Non-Technical	\$ 60	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Labor Cost by Task		\$ 3,260.00	\$ 36,670.00	\$ 8,770.00	\$ 8,770.00	\$ 3,910.00	\$ 23,610.00	\$ -	\$ 84,990.00

Cost Estimate (d.10.1 thru d.10.6)

Subs and ODCs		Project Tasks							Total
Markup Rate	10.0%	Task d.10.1	Task d.10.2	Task d.10.3	Task d.10.4	Task d.10.5	Task d.10.6		
Description	Sub/ODC	Pre Construction	Drilling	Well Installation	Development	Wellhead Completion and	Construction Administration	-	
Utility Clearance	Sub	\$ 2,000.00							\$ 2,000.00
Drilling and Sampling	Sub		\$ 99,500.00	\$ 97,500.00	\$ 12,000.00	\$ 60,000.00			\$ 269,000.00
Land Surveying	Sub				\$ 2,000.00				\$ 2,000.00
Lab Analysis	Sub	\$ -	\$ 2,500.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,500.00
	0 Sub								\$ -
Downhole Geophysics	Sub		\$ 6,000.00						\$ 6,000.00
Waste Disposal	Sub		\$ 15,000.00		\$ 10,000.00				\$ 25,000.00
Field Equipment Rental	ODC		\$ 3,500.00	\$ 1,000.00	\$ 1,000.00				\$ 5,500.00
Field Supplies	ODC		\$ 1,000.00	\$ 500.00	\$ 500.00				\$ 2,000.00
Permit Fees/ Agency Fees	ODC	\$ 1,000.00							\$ 1,000.00
	0 ODC								\$ -
Reproduction/Communications	ODC	\$ 50.00	\$ 100.00	\$ 75.00	\$ 75.00	\$ 75.00			\$ 375.00
	0 ODC								\$ -
Markup		\$ 305.00	\$ 12,760.00	\$ 9,907.50	\$ 2,557.50	\$ 6,007.50	\$ -	\$ -	\$ 31,537.50
Auto Mileage (enter estimated miles)		120	1200	300	300	180			2,100.00
Mileage Reimbursement rate:	\$0.55	\$ 66.00	\$ 660.00	\$ 165.00	\$ 165.00	\$ 99.00	\$ -	\$ -	\$ 1,155.00
Total Subs		\$ 2,200.00	\$ 135,300.00	\$ 107,250.00	\$ 26,400.00	\$ 66,000.00	\$ -	\$ -	\$ 337,150.00
Total ODCs		\$ 1,221.00	\$ 5,720.00	\$ 1,897.50	\$ 1,897.50	\$ 181.50	\$ -	\$ -	\$ 10,917.50
Total Subs and ODCs by Task		\$ 3,421.00	\$ 141,020.00	\$ 109,147.50	\$ 28,297.50	\$ 66,181.50	\$ -	\$ -	\$ 348,067.50

Lab Analysis Detail		Project Tasks							Total
Analysis	Rate	Task d.10.1	Task d.10.2	Task d.10.3	Task d.10.4	Task d.10.5	Task d.10.6		
		Pre Construction	Drilling	Well Installation	Development	Wellhead Completion and	Construction Administration	-	
Orange Coast Analytical 3/05									
TRPH 418.1	\$ 75								0
8015 gas	\$ 45								0
8015 Total Carbon Chain	\$ 45								0
VOCs 8260	\$ 125		20						20
PAHs (8100/8310)	\$ 135								0
BTEX 8021B (+/- MTBE)	\$ 45								0
SVOCs 8270	\$ 250								0
PCBs 8082	\$ 110								0
Pesticides Organochlorine 8081	\$ 110								0
Pesticides Organophosphorus 8141	\$ 175								0
CAM Metals (6010/7470/7471)	\$ 140								0
	0 \$ -								0
Total Lab by Task		\$ -	\$ 2,500.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,500.00

Cost Estimate (d.10.1 thru d.10.6)

Task Totals, Contingencies and Rounding	Project Tasks							Total	
	Task d.10.1	Task d.10.2	Task d.10.3	Task d.10.4	Task d.10.5	Task d.10.6	-		
	Pre Construction	Drilling	Well Installation	Development	Wellhead Completion and Improvements	Construction Administration	-		
Labor Total	\$ 3,260.00	\$ 36,670.00	\$ 8,770.00	\$ 8,770.00	\$ 3,910.00	\$ 23,610.00	\$ -	\$ 84,990.00	
Communications Fee (on labor) 0%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Subs Total	\$ 2,200.00	\$ 135,300.00	\$ 107,250.00	\$ 26,400.00	\$ 66,000.00	\$ -	\$ -	\$ 337,150.00	
ODC Total	\$ 1,221.00	\$ 5,720.00	\$ 1,897.50	\$ 1,897.50	\$ 181.50	\$ -	\$ -	\$ 10,917.50	
Task Total	\$ 6,681.00	\$ 177,690.00	\$ 117,917.50	\$ 37,067.50	\$ 70,091.50	\$ 23,610.00	\$ -	\$ 433,057.50	
Contingency Percentage	10%	10%	10%	10%	10%	0%	0%		
Contingency Amount	\$ 668.10	\$ 17,769.00	\$ 11,791.75	\$ 3,706.75	\$ 7,009.15	\$ -	\$ -	\$ 40,944.75	
Adjusted Task Total	\$ 7,349.10	\$ 195,459.00	\$ 129,709.25	\$ 40,774.25	\$ 77,100.65	\$ 23,610.00	\$ -	\$ 474,002.25	
Round to nearest: (enter 0.01, 0.1, 1, 10, 100, 1000)	\$100.00	\$ 7,300.00	\$ 195,500.00	\$ 129,700.00	\$ 40,800.00	\$ 77,100.00	\$ 23,600.00	\$ -	\$ 474,000.00

**CHANGE ON SUMMARY SHEET**

**DO NOT CHANGE 1/1 OR 1/3/03 NUMBERS - ONLY CUSTOM**

Labor Categories	Standard		Custom
	01/00/00	01/00/00	1/1/2012
(ES9) Senior Principal	\$0	\$0	\$ 240.00
(ES8) Principal Engineer-Scientist	\$0	\$0	\$ 235.00
(ES7) Senior Engineer-Scientist	\$0	\$0	\$ 225.00
(ES6) Senior Associate Eng-Sci	\$0	\$0	\$ 200.00
(ES5) Associate Eng-Scientist	\$0	\$0	\$ 180.00
(ES4) Engineer-Scientist	\$0	\$0	\$ 165.00
(ES3) Senior Staff Eng-Scientist	\$0	\$0	\$ 150.00
(ES2) Staff Engineer-Scientist	\$0	\$0	\$ 130.00
(ES1) Engineer-Scientist 1	\$0	\$0	\$ 125.00
Designer/Senior Tech.	\$0	\$0	\$ 135.00
(CAD-Tech.) Drafter/Technician	\$0	\$0	\$ 105.00
Project Administrator	\$0	\$0	\$ 95.00
(Admin. Asst.) Word Processor	\$0	\$0	\$ 80.00
(Aide) Non-Technical	\$0	\$0	\$ 60.00
Direct Expenses	0%	0%	10%
Communications Fee (on labor)	0%	0%	0%
Mileage	\$0.00	\$0.00	\$ 0.55



1150 West Trenton Avenue  
 Orange, CA 92867  
 Tel (714) 744-2990 Fax (714) 744-2991

**Proposal: 12-545R**  
**# of Pages: 2**

**Quote for Drilling Services**

To: Nadine Stroud  
 Company: Kennedy/Jenks Consultants  
 Fax: (619) 293-7920  
 Tel: (619) 243-2811

From: Diego Torices  
 Project: Rialto, CA.  
 Timing: TBD  
 Date: July 6, 2012

Scope: . Installation of one (1) 6" stainless steel/LCS Mud Rotary well to 880 ft, with 375 ft of stainless steel well screen  
 . Drill 7-7/8" pilot hole to 1000 ft, collecting soil samples through discharge line - Backfill/Grout Well To 880ft  
 . Ream borehole with 12 1/4" bit to 880ft in preparation for well installation  
 . Soil samples retrieved with split-spoon sampling equipment will be charged as time and material  
 . Containment of drilling mud/fluids, soil cuttings, purge & decon water in client supplied roll-off bins & tanks  
 . All generated containerized materials left on site for transportation & disposal by others  
 . Drill rig and supporting equipment/materials left over well location until well installation is completed  
 . Well Development by air lift, bail, swab and pump methods utilizing a 5T Smeal Development Rig  
 . Installation of dedicated submersible pump & motor as directed by client utilizing a Smeal 5T development rig  
**Plumbing of discharge lines and hard wiring of electrical - to include pressure tank switch - provided by others**  
**Work hours are assumed 7:00 am to 5:00 pm - Monday thru Friday**  
**Weekend work hours - as required - are portal to portal - surcharge rates apply**  
**Usable water source for duration of project to be arranged with and/or provided by client**  
**All well permits, encroachment permits and site access for drilling equipment - provided by others**  
**Sound proofing panels, blankets & structured frame (if required) Not included in estimate project total**  
**Prevailing wages - NOT included in the estimated project total**

Item	Description	Unit	Estimated Quantity	Unit Price	Extension
<b>1</b>	<b>Mobilization/Demobilization</b>				
	IR TH100 Mud Rotary Drill Rig, Support Trucks & Crew	Each	1	\$5,000.00	\$5,000.00
	Daily Drill Crew Travel	Trip	25	\$300.00	\$7,500.00
<b>2</b>	<b>6" Stainless Steel Well Installation - Mud Rotary</b>				
	Mud Rotary Rig Setup & Temporary Surface Casing	L.S.	1	\$1,500.00	\$1,500.00
	Drill Pilot Hole 7-7/8" - Sampling Through Discharge Line	Foot	1000	\$35.00	\$35,000.00
	Backfill/Abandonment Of 7 7/8" bore hole	Foot	120	\$18.00	\$2,160.00
	Ream Pilot Hole - 12-7/8" For Well Installation	Foot	880	\$30.00	\$26,400.00
	Collect Split Spoon Soil Samples As Directed (est)	Hour	-	\$350.00	-
	Split Spoon Liners, (2" x 6") Caps & Teflon (est)	Each	-	\$15.00	-
	Geophysical Logging services (water well suite)	Each	1	\$3,750.00	\$3,750.00
	Drill Rig Hourly Rate/Standby For E-Logging (est 6hrs)	Hour	6	\$350.00	\$2,100.00
	Drilling Fluid Change Out & Decon Of Tooling/Equipment	Hour	20	\$350.00	\$7,000.00
	Installation of Well Casing and Annular Materials	Foot	880	\$15.00	\$13,200.00
	6" SCH 40 LCS Blank Casing and Centralizers	Foot	455	\$35.00	\$15,925.00
	6" SCH 10 Stainless Steel Blank Casing and Centralizers	Foot	50	\$67.00	\$3,350.00
	6" Stainless Steel Wire-Wrap Screen and Centralizers	Foot	375	\$91.00	\$34,125.00
	Dissimilar Mechanical Connector	Each	1	\$1,975.00	\$1,975.00
	Annular Material - Sand, Bentonite Seals and Grout To Surface	Foot	880	\$16.00	\$14,080.00
	Install 12" Monument Riser With Security Lid On 4' x 4' Pad	Each	-	\$650.00	-
	Install 4" Security Bollars around Monument Riser (est. 6)	Each	-	\$125.00	-
<b>3</b>	<b>Rental Equipment and Miscellaneous</b>				
	Water Truck, Decon Unit & Support Trucks	Day	25	\$275.00	\$6,875.00
	Forklift and Tilt Hoppers 1st Day	L.S.	1	\$450.00	\$450.00
	Forklift and Tilt Hoppers - 28 Day Cycle	L.S.	1	\$3,000.00	\$3,000.00
	Site Fencing Enclosure & Portable Restroom (28 day cycle)	LS	1	\$1,200.00	\$1,200.00
	Drill Site Security Guard (12 hour shift - nights)	Hour	350	\$35.00	\$12,250.00
	Sound Proofing Panels, Blankets & Frame Structure (if required)	-	-	cost +15%	-
	Premium Time 3-Man Crew Over 10hrs On-Site	Hour	10	\$90.00	\$900.00
	Premium Time 3-Man Crew Weekend/Night Work - Surcharge	Hour	50	\$90.00	\$4,500.00
	Prevailing Wage Surcharge Rates - 3 - Man Crew	Hour	-	\$105.00	-
	Drill Rig Hourly Standby Rate	Hour	-	\$350.00	-

Item	Description	Unit	Estimated		Extension
			Quantity	Unit Price	
<b>4</b>	<b>Installation Of One CNI 36" x 48" x 36" 1-Piece Easy Lift Cover Well Vault - Unit# SP3648/36EZ</b>				
	36" x 48" x 36" CNI Well Vault With Easy Lift - Single Hinge Door	Each	1	\$3,875.00	\$3,875.00
	Vault Installation To Include:	L.S.	1	\$2,000.00	\$2,000.00
	Digging Of Trench Area For Placement Of Vault	-	-	-	-
	Gravel Backfill For Annulus Area To Within ~2ft bgs.	-	-	-	-
	Concrete Skirt ~9" Wide x ~2ft Thick Around Vault	-	-	-	-
	Gravel/Concrfete Bottom Of Inside Vault Area Around Well	-	-	-	-
<b>5</b>	<b>Well Development By Air Lift, Bail, Swab &amp; Pump Methods</b>				
	Mob/Demob Of 5T Smeal Development Rig & 1-Man Crew	Trip	5	\$275.00	\$1,375.00
	Well Developpent (est. 8 - 10hrs on site per day)	Hour	45	\$150.00	\$6,750.00
	Additional Technician - Assist With Air Lifting Of Well	Hour	20	\$45.00	\$900.00
	Air Lifting Tooling/Materials - (pipe, compressor, hoses)	Day	2	\$850.00	\$1,700.00
	Decontamination Trailer	L.S.	1	\$500.00	\$500.00
	55 Gal. Containment Drums (as required)	Each	-	\$47.00	-
	Premium Time 1-Man Crew Over 8hrs On-Site	Hour	5	\$30.00	\$150.00
	Premium Time 1-Man Crew Weekend/Night Work - Surcharge	Hour	-	\$30.00	-
	Prevailing Wage Surcharge Rates - 1- Man Crew	Hour	-	\$35.00	-
<b>6</b>	<b>Dedicated Pump Installation</b>				
	Mob/Demob Of 5T Smeal, 20ft Support Truck & 2-Man Crew	L.S.	1	\$750.00	\$750.00
	2 Man Crew - Dedicated Pump Installation (on-site hours) est.	Hour	10	\$195.00	\$1,950.00
<b>7</b>	<b>Pump Equipment And Materials</b>				
	Grundfos Pump End - 16S50-38 (16gpm - 750ft head) 1 1/4" Outlet	Each	-	\$1,150.00	-
	Franklin 4 Inch Motor End - 5HP 460V Three Phase	Each	-	\$940.00	-
	Stainless Steel Pump Shroud - Used on 4 Inch Motor In 6 Inch Well	Each	-	\$550.00	-
	Grundfos Pump End - 40S150-37DS (40gpm - 780ft head) 2" Outlet	Each	1	\$3,915.00	\$3,915.00
	Franklin 6 Inch Motor End - 15HP 460V Three Phase	Each	1	\$1,925.00	\$1,925.00
	Submersible Jacketed Lead 3-Wire 12-AWG (for 5HP)	Foot	-	\$1.07	-
	Submersible Jacketed Lead 3-Wire 8-AWG (for 15HP)	Foot	850	\$2.15	\$1,827.50
	1 1/4 Inch Galvanized Drop Pipe W/ Galvanized Couplings	Foot	-	\$4.50	-
	1 1/4 Inch Stainless Steel Drop Pipe W/ Stainless Steel Couplings	Foot	-	\$15.75	-
	2 Inch Galvanized Drop Pipe W/ Galvanized Couplings	Foot	-	\$6.25	-
	2 Inch Stainless Steel Drop Pipe W/ Stainless Steel Couplings	Foot	850	\$21.00	\$17,850.00
	3/16 Inch Stainless Steel Safety Cable	Foot	860	\$1.05	\$903.00
	Well Seal - 6 Inch Well Casing x 1 1/4 Inch Drop Pipe	Each	1	\$25.00	\$25.00
	Well Seal - 6 Inch Well Casing x 2 Inch Drop Pipe	Each	1	\$30.00	\$30.00
	Special Fabrication 1" Thick Flanged Elbow In-Vault Landing Plate	L.S.	1	\$375.00	\$375.00
	Siemens 460V Control Box	Each	1	\$950.00	\$950.00
	<b>Estimated Working Days To Complete Drilling &amp; Well Installation</b>				<b>25 - Work Days</b>
	<b>Estimated Working Days To Complete Well Development &amp; Pump Installation</b>				<b>6 -Work Days</b>
	<b>Estimated Project Total</b>				<b>\$249,990.50</b>

Notes: BC2 assumes that other parties will provide site access, drilling and well permits, on-site water supply and clear the location of utilities on the property. Drill rig hourly rates will be charged for all standby time and for time associated with returning to previously-drilled boreholes. BC2 is not responsible for damage to underground improvements.

Client is responsible for all Road and Lane Closure Permits and Equipment.

Client is responsible for naming BC2 Environmental on USA Dig Alert Ticket as the excavating contractor.